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~~~~~ Universal Approximation Theorem ~ Word-embedding vector space ~~~~~

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From: lifan gu <gulifan@hotmail.com>  
Sent: Wednesday, December 21, 2022 6:12 AM  
To: g.thooft@uu.nl <g.thooft@uu.nl>  
Cc: lifan gu <gulifan@hotmail.com>  
Subject: Scientific Logic and Free Will

Dear Professor Gerard 't Hooft,

I saw your article Free Will in the Theory of Everything, and like to see what we could agree with.

Do you agree that this article is just like a blind man feels an elephant? Especially because in your Rules #6 and #7, you used languages like God's computer and computer program. When talking about God, we should avoid any traps or narrow mindsets like Turing Machine or computers. God's mind should be much greater than an elephant, a computer, or any types of Turing Machine.

I agree with that Free Will cannot be derived from current physical theories from human. However, this does not exclude the possibilities of Free Will. Actually, the life evolution theory cannot be derived from current physical theories from human, even classical physics or relativistic physics cannot be derived from current quantum physics from human yet.

In your Demand #2, you talked about causality, which needs to separate past from future. Could human understand God's time ?

In your Demand #3 "Not all events in the past, but only a few of them should dictate an event in the presence". Could human fully understand God's selection?

When talking about logic, we need understand the problems in various mathematical logics and philosophical logics, and develop a new scientific logic to understand the powers and limits of human sciences. Scientific logic should study the possible structures of Free Will and design experiments about it.

Human intelligence experiences the development from Historia Naturalis to Philosophiae Naturalis, and to Scientia Naturalis. Unfortunately, current testing of artificial intelligence, including driverless cars, is based on historical methods, which would cause severe problems in future.

Thank you for mentioning that after most quantum transformations, reality is replaced by the more abstract notion of a wave function, which regains continuity.

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Deep Learning BRAIN initiative
BRAIN initiative LaMDA BlenderBot3

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“... ..”

海克托·柏利奧士Hector Berlioz與哈麗特·史密斯森Harriet  
Smithson的音樂作品Symphonie fantastique與哈麗特·史密斯森  
Harriet Smithson 的肖像

Лара Живаго Комаровский

“...20 [https://zh.wikipedia.org/wiki/%E8%89%B2%EF%BC%8C%E6%88%92\\_\(%E9%9B%BB%E5%BD%B1\)#%E5%BC%A0%E7%88%B1%E7%8E%B2](https://zh.wikipedia.org/wiki/%E8%89%B2%EF%BC%8C%E6%88%92_(%E9%9B%BB%E5%BD%B1)#%E5%BC%A0%E7%88%B1%E7%8E%B2)”

Lord of the Flies Simon

“...”